ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPL	ICATION CHECKLIST	
T⊦	IIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICA WHICH REQUIRE PROCESSING AT T	TIONS FOR EXCEPTIONS TO DIVISION RULES AND F	REGULATIONS
Applic	[DHC-Dow [PC-Po	s: ndard Location] [NSP-Non-Standard F nhole Commingling] [CTB-Lease Co ol Commingling] [OLS ⁻ - Off-Lease S [WFX-Waterflood Expansion] [PMX- [SWD-Salt Water Disposal] [IPI	Proration Unit] [SD-Simultaneous Dedication Inmingling] [PLC-Pool/Lease Comming Storage] [OLM-Off-Lease Measurement] Pressure Maintenance Expansion]	ling]]
[1]	TYPE OF AF	PLICATION - Check Those Which A Location - Spacing Unit - Simultaneo NSL NSP SD		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measureme The DHC CTB PLC	nt PC OLS OLM	
	[C]	Injection - Disposal - Pressure Increa		
	[D]	Other: Specify		70
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Working, Royalty or Overriding		⊢
	[B]	Offset Operators, Leaseholders	or Surface Owner	•
	[C]	Application is One Which Requ	ires Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissione	Approval by BLM or SLO or of Public Lands, State Land Office	
	[E]		otification or Publication is Attached, and/o	r,
	[F]	Waivers are Attached	·	
[3]		CURATE AND COMPLETE INFORTION INDICATED ABOVE.	RMATION REQUIRED TO PROCESS	ТНЕ ТҮРЕ
	al is accurate a	•	ation submitted with this application for ad ge. I also understand that no action will be submitted to the Division.	
	Note		al with managerial and/or supervisory capacity.	
	N COLLINS	- Mildle	ENGINEER Title	$-\frac{01/04/08}{Data}$
1-11111 0	r Type Name	Signature	Title	Date
			engineering@marbob.com	<u>1</u>

e-mail Address

Form C-107A Revised June 10, 2003

District II

District III
1000 Rio Bragos Road, Az

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE

X Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X Yes No

MARBOB ENERGY CORPORAT			ESIA NM 88211-0027
Operator RED RYDER STATE COM	Addr 1 A/H - 25-25 Well No. Unit Letter-S		COUNTY, NM
OGRID No. 14049 Property Co			Federal X State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	UNDESIGNATED DELAWAR	RE .	UNDESIGNATED BONE SPRI
Pool Code			
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4292-5785' PERF		8178-8204' PERF
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	50-200 PSI PRODUCING BHP	Ç.	400 PSI PRODUCING BHP
Oil Gravity or Gas BTU (Degree API or Gas BTU)	43°		45°
Producing, Shut-In or New Zone	NEW ZONE		PRODUCING
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production bissory. applicant shall be required to attach production	Date: N/A	Date:	Date: 7 DEC 07
estimates and supporting data.)	Rates:	Rates:	Rates: 20 BOPD 70 MCFD
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	68 % 69 %	% %	32 % 31 %
	ADDITIO!	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over			Yes X No Yes No
Are all produced fluids from all comm	ingled zones compatible with each of	other?	Yes_X No
Will commingling decrease the value of	of production?		YesNo_X
If this well is on, or communitized with or the United States Bureau of Land M	h, state or federal lands, has either the lanagement been notified in writing	ne Commissioner of Public Lands of this application?	Yes X No
NMOCD Reference Case No. applicab	ole to this well:		MARIA MARIAN
Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royalt	gled showing its spacing unit and act at least one year. (If not available, ory, estimated production rates and sor formula. Ly and overriding royalty interests for documents required to support com	attach explanation.) supporting data. or uncommon interest cases.	
	PRE-APPRO	OVED POOLS	
If application is	s to establish Pre-Approved Pools, t	he following additional information w	vill be required:
List of other orders approving downhot List of all operators within the propose Proof that all operators within the proposed Bottomhole pressure data.	ed Pre-Approved Pools	••	
I hereby certify that the informatio	n above is true and complete to	the best of my knowledge and beli	ief.
SIGNATURE / Smit	1.11	ENGINEER	DATE 01/04/08
TYPE OR PRINT NAME BRIA	N COLLINS	TELEPHONE NO. (505) 748-3303

engineering@marbob.com

E-MAIL ADDRESS

Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation Red Ryder State Com No. 1 (Unit A/H, Sec. 25-T25S-R27E)

Marbob Energy proposes to downhole commingle the Bone Spring and Delaware in the captioned well.

No crossflow will occur because this well will be rod pumped in a pumped down condition. The proposed zonal allocation is described below. The best engineering estimate is that the Bone Spring decline behavior over time will approximate the Delaware decline behavior

Bone Spring: Best engineering estimate is that the Bone Spring will come in at 20 bopd/70 mcfd. The best engineering estimate is that the oil will decline 50%/yr for 1 year, 25%/yr for 4 years, followed by 10%/yr thereafter. The best engineering estimate is that the gas will decline 50%/yr for 1 year, 25%/yr for 4 years, followed by 10%/yr thereafter.

```
Qioil = 20 bopd.
Q1yr = 10 bopd
Q5yr = 3 bopd
Qel
      = 0.5 \text{ bopd}
EUR oil = -365(20-10) + -365(10-3) + -365(3-0.5)
           In (1-.50)
                          In(1-.25)
                                        In (1-.10)
        = 5265 + 8881 + 8661 BO
       = 22807 BO
Qigas = 70 mcfd
Q1yr = 35 mcfd
Q5yr = 11 mcfd
Qel = 5 mcfd
EUR gas = -365(70-35) + -365(35-11) + -365(11-5)
             In (1-.50)
                            In (1-.25)
                                        In (1-.10)
         = 18430 + 30450 + 20786 MCF
         = 69666 MCF
```

<u>Delaware</u>: Best engineering estimate is that the Delaware will start out at 40 bopd/140 mcfd and will decline as described for the Bone

Spring.

Qioil =
$$40$$
 bopd
Q1yr = 20 bopd
Q5yr = 6.3 bopd
Qel = 0.5 bopd

EUR oil =
$$\frac{-365 (40-20)}{\ln (1-.50)} + \frac{-365 (20-6.3)}{\ln (1-.25)} + \frac{-365 (6.3-0.5)}{\ln (1-.10)}$$

= $10532 + 17382 + 20093 BO$
= $48007 BO$

$$Qi$$
 = 140 mcfd
 $Q1yr$ = 70 mcfd
 $Q5yr$ = 22 mcfd
 Qel = 5 mcfd

EUR gas =
$$-\frac{365 (140-70)}{\ln (1-.50)} + \frac{-365 (70-22)}{\ln (1-.25)} + \frac{-365 (22-5)}{\ln (1-.10)}$$

= $36861 + 60901 + 58893$ MCF
= 156.655 MCF

Zonal Allocation

District 1
1625 N. French Dr., Hobbs, NM 88240
District 11
1301 W. Grand Ave., Artesia, NM 88210
District 111
1000 Rio Brazos Rd., Aztec, NM 87410
District 1V

1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico

Fonn C-102 Permit 38339

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AN	ID ACREAGE DED	DICATION PLAT

****	DE LOCATION IND ACIE	DIGE DEDICHTION	1 A A// S A
1. API Number	2. Pool Code		3. Pool Name
30-015-35150	78260	78260 HAY HOLLOW;MORROW (GA:	
4. Property Code	5. Property Name RED RYDER STATE COM		6. Well No.
36027			001
7. OGRID No.	8. Operator	8. Operator Name MARBOB ENERGY CORP	
14049	MARBOB ENE		

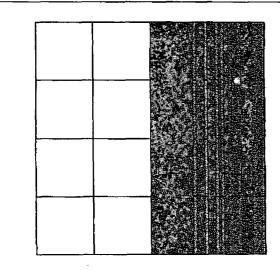
10. Surface Location

-	UL - Lot	Section	Township	Range	Lot ldn	Feet From	N/S Line	Feet From	E/W Line	County
	Α	25	258	27E	Α	1320	N	660	Е	ÉDDY

11. Bottom Hole Location If Different From Surface

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Li	ine	Feet From	E/W Line	County
					l	1					I
ı	12. Dedicated Acres		13.	Joint or Infill	14. Consolidation (Code 15. Order No.				
	320.00					+. Consongation (.000				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Diana Briggs Title: Production Analyst Date: 9/20/2006

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gary Eidson Date of Survey: 8/25/2006 Certificate Number: 12641

Submit 3 Copies To Appr Office	•	State of New Mergy, Minerals and Nat			Form C-103 May 27, 2004
District I 1625 N. French Dr., Hobb		orgy, witherars and ival	diai Resources	WELL API NO.	, , , , , , , , , , , , , , , , , , , ,
<u>District II</u> 1301 W. Grand Ave., Art	esia NM 88210 OI	L CONSERVATIO	N DIVISION	30-015-35150	
District III		1220 South St. Fra	ncis Dr.	5. Indicate Type of Lease STATE	; FEE 🗍
1000 Rio Brazos Rd., Azt District IV	ec, NM 87410	Santa Fe, NM 8	37505	6. State Oil & Gas Lease	
1220 S. St. Francis Dr., S. 87505	anta Fe, NM				
	JNDRY NOTICES ANI	D REPORTS ON WELL	S	7. Lease Name or Unit A	greement Name
		RILL OR TO DEEPEN OR P OR PERMIT" (FORM C-101) I		RED RYDER STATE C	OM
PROPOSALS.)			OK 30CH		JOPI
1. Type of Well: O		l Other		8. Well Number 1	
2. Name of Operato		GY CORPORATION		9. OGRID Number 14049	
3. Address of Opera	tor P O BOX 227			10. Pool name or Wildcat	
	ARTESIA NM	88211-0227		UNDESIGNATED BONE	SPRING
4. Well Location					
1		feet from theNOR!			
	5		Range 27E	NMPM EDDY Count	y NM
THE RESERVE THE PROPERTY OF TH		vation <i>(Show whether D.</i> 3015'	R, RKB, RT, GR, etc.) FR		
Pit or Below-grade Tank	Application or Closure		310		But K
			water well Dist	ance from nearest surface water	
Pit Liner Thickness:	mil Belov	v-Grade Tank: Volume	bbls; Co	nstruction Material	
	12. Check Appropri	iate Box to Indicate 1	Nature of Notice.	Report or Other Data	
	TICE OF INTENTION			SEQUENT REPORT	OF: ING CASING □
PERFORM REMEDITEMPORARILY ABA		AND ABANDON 🗌 GE PLANS 🔲	REMEDIAL WORK		· · · · · · · · · · · · · · · · · · ·
PULL OR ALTER CA			CASING/CEMENT		
	_	_		_	
	NHOLE COMMINGLIN		OTHER:	d give pertinent dates, includ	ding estimated date
				tach wellbore diagram of pr	
or recomplet	• 1 •		r		· r
SEE ATTACHED	C-107A APPLICAT	ION FOR DOWNHOLE	COMMINGLING.		
THE PROPOSED	ALLOCATION IS.	UNDESIGNATED BON	E SPRING - OIL	32% - GAS 31%	
THE TROTOBER		UNDESIGNATED DEL			
		IITTED IF ACTUAL	WELL PRODUCTION	N IS SIGNIFICANTLY	
DIFFERENT TH	AN THAT ABOVE.				
I hereby certify that the	e information above is t	rue and complete to the	hest of my knowledge	e and belief. I further certify (that any pit or balow
grade tank has been/will l	oe constructed or closed acco	ording to NMOCD guidelines	, a general permit	or an (attached) alternative OCI	D-approved plan .
CLCX LA TELLEDE	R. Andle		ENCINEEDING	, A 100E	01/04/08
SIGNATURE	of my ones	TTTLE_	ENGINEERING	DATE	01/04/00
Type or print name	BRIAN COLLINS	E-mail a	address:	Telephone	No.
For State Use Only			engineering(75-748-3303
A DDD OVED DV		mini s		rs 4 mm	
APPROVED BY: Conditions of Approv	al (if any):	TITLE_	100	DATE	
- · · · · · · · · · · · · · · · · · · ·	· • /				



January 4, 2008

New Mexico State Land Office Oil, Gas & Minerals Division P. O. Box 1148 Santa Fe, NM 87504-1148

Attn: Ms. Jamie Bailey

Re: C-107A Downhole Commingling Application

Red Ryder State Com #1

Township 25 South, Range 27 East, NMPM

Sec. 25: Unit A/H

Eddy County, New Mexico

Dear Ms. Bailey:

Enclosed is the \$30.00 application fee and copy of the Form C-107A Application for Downhole Commingling that we submitted to the NMOCD for the referenced well located in Eddy County.

We are seeking approval to downhole commingle the Bone Spring and Delaware zones to extend the economic life of the well and maximize the financial benefit to the State of New Mexico.

If you have any questions, please call me at 505-748-3303.

Sincerely,

Brian Collins

Petroleum Engineer

willer.

BC/dlw enclosures

1/7/08

APPLICATION FEE/DOWNHOLE COMMINGLING - RED RYDER ST COM

\$ 30.00

\$ 30.00



MARBOB ENERGY CORPORATION

2208 W. MAIN

P.O. BOX 227 ARTESIA, NEW MEXICO 88211-0227 (505) 748-3303

050994

PLEASE DETACH BEFORE DEPOSITING. RETAIN TOP PORTION FOR YOUR RECORDS.

050994

95-43/1122

energy corporation

P.O. BOX 227 ARTESIA, NEW MEXICO 88211-0227 2208 W. MAIN

(505) 748-3303

NEW MEXICO STATE LAND OFFICE OIL, GAS & MINERALS DIVISION

PAY TO THE ORDER OF

87504-1148

SANTA FE, NM PO BOX 1148

FIRST NATIONAL BANK P.O. DRAWER AA

ARTESIA, NM 88210

\$30.00 1/7/08

MARBOR ENERGY CORPORATION

#050444# #155004344

LE512700 •